



Measuring Mission Capability

**L&MR Materiel Readiness
Offsite
January 2005**





Managing Operational Capability

- The Defense Readiness Reporting System (DRRS) is a net-centric platform for highlighting organizational capability and the operational consequences therein
 - Commanders' assessments of mission and task capabilities
 - Detailed measures of resource status
- Organizational commanders must understand the operational consequence of resource status—e.g. can my aircraft support precision strike operations? What about tanking?
 - Use of MC rates have evolved over time and are now commonly used as a proxy for equipment capability
 - Requires tracking whether platforms are capable of performing specific missions

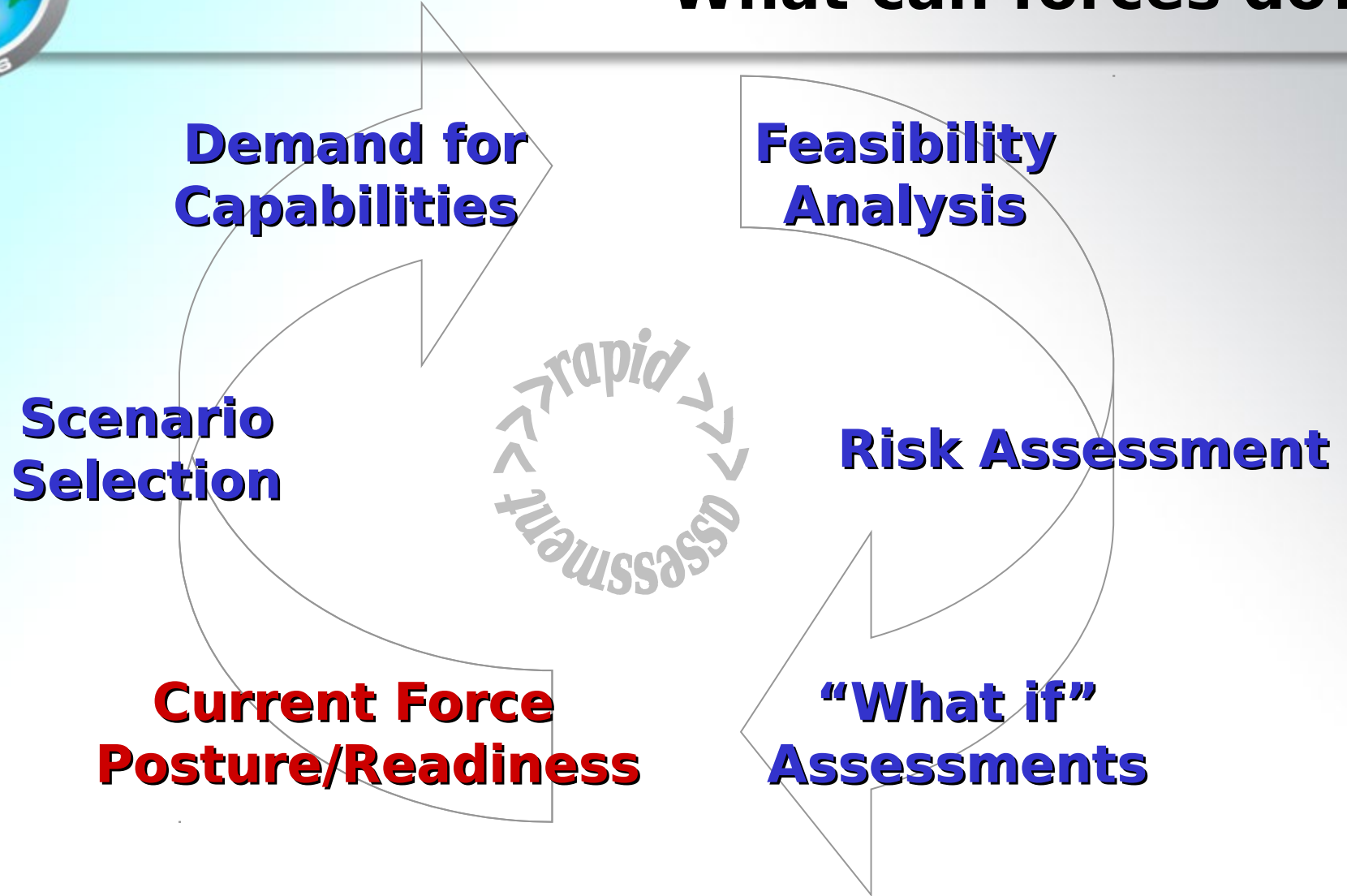


DRRS Objectives

- **Expand the way we measure force status**
 - Focus on forces and missions
 - Includes Joint and operational units as well as CSAs
- **Focus how we think of readiness**
 - Beyond narrow resource accounting
 - Synonymous with capability—What can forces do?
 - In the context of assigned missions
- **Improve our ability to assess risk**
 - Uses collaborative tools linked to near-real time data
 - Requires operational context —What can't forces do?
- **Link deficiencies to operational impact**
 - Builds in the identification of mitigation strategies
 - Considers readiness reporting, risk assessment and adaptive planning as one large, iterative process



What can forces do?



Tools for Managing Joint Forces

Portal



ESORTS SCENARIO LIBRARY FORCE BUILDER FEASIBILITY ANALYSIS RISK ASSESSMENT ADAPTIVE PLANNING

Welcome COL Smith of the 51st Operations Group

Current Status

Core Task

2004 Feb 16 **Q** [CORE](#)

Major Plans

2004 Feb 16 **Q** [55204](#)
 2004 Feb 16 **Y** [55205](#)
 2004 Feb 16 **N** [55206](#)

Named Operations

2004 Feb 16 **Q** [OEF](#)
 2004 Feb 16 **Y** [OIF](#)

Home Location

Andrews AFB

Assessment Watch List

Admin Command

[Edit](#)

My Unit Structure

Last Assessment

<input checked="" type="checkbox"/> 51st Fighter Wing	1 April 2004
<input checked="" type="checkbox"/> 51st OPS Group	1 April 2004
<input type="checkbox"/> 36th Fighter Squadron	1 April 2004
<input type="checkbox"/> 55th Airlift Flight	1 April 2004
51st Support Group	1 April 2004
51st Medical Group	1 April 2004
51st Logistics Group	1 April 2004

Other Related Organizations

5th Airforce	1 April 2004
7th Airforce	1 April 2004
TRANSCOM	1 April 2004

Discussion Forum

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Topic	# of Posts	Last Post Date
RML Specification	20	5/7/04 10:05 am
Assessment Prototype	5	4/28/04 8:15 pm

Related Links

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[UJTL](#)
[JMETL Development Handbook](#)
[Joint Training Manual](#)

Rapid Assessment



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File Sharing

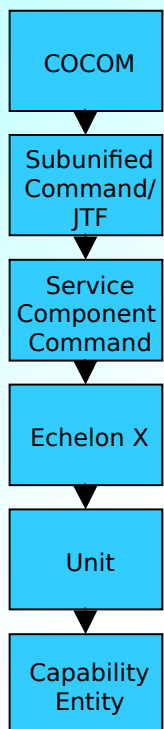
Repository	# of Docs	Last Post Date
CONOPS	1	5/7/04 10:05 am
RML Spec	1	4/28/04 8:15 pm

Notional Information for
briefing purposes



Assess MET

METL Process



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Defense Readiness Reporting System

ESORTS SCENARIO LIBRARY FORCE BUILDER FEASIBILITY ANALYSIS RISK ASSESSMENT ADAPTIVE PLANNING

Assessment GSORTS Personnel Equipment Training Supply Ordnance

51st Operations Group - Active Assessment

[Core Tasks](#) [Major Plans](#) [Named Ops](#) [Overall](#)

[VIEW](#) [EDIT](#)

Mission Info		Unit Mission Info	Mission Assessment	
Major Plan: 55204		Employment Duration: 1 year	Mission Assessment: Q	Approve
Plan End Date: June 2005		Mission Statement	Last Approved: 01-May-2004	
Operational Command: USFK		Current Location: Osan AFB	Status: In Staffing	
		Operational Parent: 51st Wing	View All Remarks	

Mission Essential Tasks		ORG/OPR	Remarks	Last Reviewed	Rating		
<input checked="" type="checkbox"/> AFT 4.2.1.2	Conduct Close Air Support (CAS).	OG	Y	15-May-2004	Q		
<div style="display: flex; align-items: center;"> <input checked="" type="checkbox"/> Standard Edit </div>							
Measure	Unit of Measure	Criterion	Assessed	Value	Observed Date	Under Task Conditions?	Date of Anticipated Change
Of desired tactical effects achieved.	Percent	>=95	90	92	15-Jan-2004	Y	13-Jun-2004 Worse
To provide close air support operations at the request of friendly surface forces.	Hours	>=12	13	14	13-Feb-2004	N	20-Aug-2004 Better
Staff Tasks							
<input type="checkbox"/> AFT 4.2.2	Educate and Train Counterland Forces.				DOW	Y	15-May-2004 N
<input type="checkbox"/> AFT 4.2.4	Plan Counterland Functions.				MPC	Y	15-May-2004 Q
Subordinate Unit Tasks							
<input type="checkbox"/> AFT 4.2.1	Perform Strategic Attack.				36SQ/DO	Y	15-May-2004 Q
Command Linked Tasks							
<input type="checkbox"/> AFT 2.1.3	Equip Forces with Lethal Precision Engagement Capabilities.				TRANS/COM/J2	Y	15-May-2004 Y
	Operations Interdiction of Operational Forces/Targets.				OG	Y	01-Jan-2004 Y
	Support of Operational Maneuver.				OG	Y	28-May-2004 Q

Notional Information for briefing purposes



ESORTS

- **Mission views**
 - Based on Mission Essential Tasks (METs)
 - Assessments of the organization's ability to conduct
 - Specific tasks
 - Assigned missions
- **Resource views**
 - Supports mission assessments
 - Based on disaggregate resource data (personnel, equipment, supplies, ordnance and unit training)
 - User-defined query capabilities
 - Supports mission capability assessments
- **Force management tools**
 - Applications to support Department-wide searches for available capabilities



Top-Level Resource Metrics

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DRRS Defense Readiness Reporting System

My Views GSORTS Status Summary Status Organization Capability NORTHCOM PLAN

Summary Status Personnel Equipment Ordnance Training

Setup

Results

Drag a column header here to group by that column.

Unit Name	UIC	PER OH%	PER DEP%	OFF OH%	ENL OH%
0855 CS CO FLD SVC DS	WZNVAA				
CG 49 VINCENNES	N21295	50	100	11	89
CG 62 CHANCELLORSVILLE	N21451	63	100	30	96
CG 63 COWPENS	N21623	51	100	8	95
CV 63 KITTY HAWK	N03363	63	100	34	93
CVW 5	N09733	64	100	42	86
DD 975 OBRIEN	N20601				
DD 985 CUSHING	N20617	50	100	8	93
DDG 54 WILBUR C	N21640	60	100	27	94
DDG 56 MCCAIN JS	N21686	53	100	15	91
FFG 48 VANDEGRIFT	N21200	54	100	20	88
FFG 51 GARY	N21232	45	100	4	87
HS 14	N09209	46	100	0	92
VAQ 136	N09973	47	100	0	95



Drilldown (Equipment)

SECRET

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Defense Readiness Reporting System

My Views | GSORTS Status | Summary Status | Organization | Unit Search | CV 63 KITTY HAWK

Summary Status | Personnel | **Equipment** | Ordnance | Training

Drag a column header here to group by that column.

Unit Name	EQP OVL	CASREP Count
CV 63 KITTY HAWK	85	10

Name	Allocated	On Hand	FMC	PMC	NMC
54460-1 (E-2 PROP)	2	0	0	0	0
A/A42R ARS S-3	19	19	18	0	1
AAS-38 FLIR	2	2	2	0	0
AAS-38A TFLIR	16	16	13	0	3
ALQ-99 BAND 1 XMTR	4	4	4	0	0
ALQ-99 BAND 2 XMTR	5	5	4	0	1
ALQ-99 BAND 4 XMTR	9	9	9	0	0
ALQ-99 BAND 5/6 XMTR	9	9	5	0	4
ALQ-99 BAND 7 XMTR	14	14	13	0	1
ALQ-99 BAND 8 XMTR	11	11	11	0	0
ALQ-99 BAND 9 XMTR	7	7	7	0	0
ALQ-99 BAND 9/10 XMTR	8	8	8	0	0
ALQ-99 UEU	21	21	19	0	2
ASQ-173 LDT	8	8	6	0	2
ASQ-228 ATFLIR	8	8	6	0	2
F404-GE-400	2	3	1	0	0
F404-GE-400A (AB)	1	1	1	0	0
F404-GE-400C (HPC)	1	0	0	0	0
F404-GE-400F (FAN)	1	1	1	0	0
F404-GE-400H (HPT)	1	1	1	0	0
F404-GE-400L (LPT)	1	3	3	0	0
F404-GE-400S (COMB)	1	1	1	0	0
F404-GE-402	3	2	1	0	0
F404-GE-402A (AB)	2	2	1	0	0
F404-GE-402C (HPC)	2	2	2	0	0

Drag a column header here to group by that column.

CASNUM	CASCAT	INIT DATE	DAYS OPEN	UP NBR	MSG DTG	EQUIP DESC	ES
2003154	2	060030ZDec03	299	10		INTEG COND ASSES SYS	13
2004139	2	080230ZJul04	84	4		ANUSQ-123B(V), CHBDL-ST	20
2004157	2	040030ZAug04	57	1		ANALYZER, GAS, BLOOD	05
2004162	2	100830ZAug04	51	1		4B2 FDB STM ADM VLV	30
2004164	2	140830ZAug04	47	3		NR1 SSTG	05
2004169	2	250630ZAug04	36	1		MK23 TGT AQUISITION SYS	20
2004173	2	290830ZAug04	32	1		CKT-HC-CW IND SYSTEM	28
2004178	2	311130ZAug04	30	1		BOW WIND SPD-DIR IND	29
2004180	2	030530ZSep04	27	1		LAUNCHING SYSTEM, MISSIL	23
2004181	2	052130ZSep04	25	0		2 ACE PPG SYS, HYDRAULIC	04

Force Management Tools



Defense Readiness Reporting System

My Views GSORTS DRRS Resource Status Total US Forces

Filter

Select a Force:



Select all Forces: ☐

Selected: **Navy**

UTC

Individual Skill

MET

Check all that apply

- ☐ NTA 1 Major Task Training
- ☐ NTA 1.1 Major Task Training
- ☒ NTA 1.2 Major Task Training
- ☐ NTA 1.3 Major Task Training
- ☐ NTA 1.4 Major Task Training
- ☐ NTA 1.5 Major Task Training
- ☐ NTA 1.6 Major Task Training
- ☐ NTA 1.7 Major Task Training
- ☐ NTA 1.8 Major Task Training

Met Quick Find

Enter Code or keyword

Search

Force Flow Management



Total U.S Uniformed Personnel:

74

Air Force: 0



Army: 0



Marine Corp: 0



Navy: 74



Air Force AC
0

Air Force NC
0

Army AC
0

Army NC
0

Marine AC
0

Marine NC
0

Navy AC
45

Navy NC
29

Select Reserve
0

IRR
0

Select Reserve
0

IRR
0

Select Reserve
0

IRR
0

Select Reserve
19

IRR
10

Force Availability:



NAVY Select Reserve

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Force	Unit	UIC	UTC	CDR	OVL	LOC
Navy	2 RVP CD	NA3332	Misc	4	Y	
Navy	ACU 1	N53257	Transportation and cargo	3	Y	
Navy	ARDM ALAMOGORDO	N05367	Fleet Auxiliaries	3	Q	
Navy	BPT D	N44923	Naval Support Element	3	Y	
Navy	BPT E	N44924	Service HQ, Major Staff	4	Y	
Navy	CCGF PADUCAH KY	NB0243	Warships, Craft, and admin	4	Q	
Navy	CG 51 THOMAS S GATES	N82911	Transportation and cargo	3	Q	
Navy	COGARD MSO ANCHORIDGE	NA3332	Fleet Auxiliaries	3	Y	
Navy	COGARD MSO HUNTINGTON	N53257	Naval Support Element	3	Y	
Navy	ARDM ALAMOGORDO	N05367	Service HQ, Major Staff	3	Y	
Navy	BPT D	N44923	Warships, Craft, and admin	4	Y	
Navy	BPT E	N44924	Transportation and cargo	3	Q	

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Need Precise Measures of Equipment Mission Capability

- MC and FMC goals are notoriously problematic
 - Recent audits suggest goals have little foundation
 - In a fiscally constrained environment, adhering to FMC goals is difficult
 - Adhering to MC goals do not necessarily guarantee a capability in any one mission
- MC is most meaningful when associated with specific missions
 - It is difficult to interpret the operational consequences of a low MC rate
 - MC by mission or capability solves ambiguity problem
 - Absent that, only way to protect key missions is to set strict FMC goals



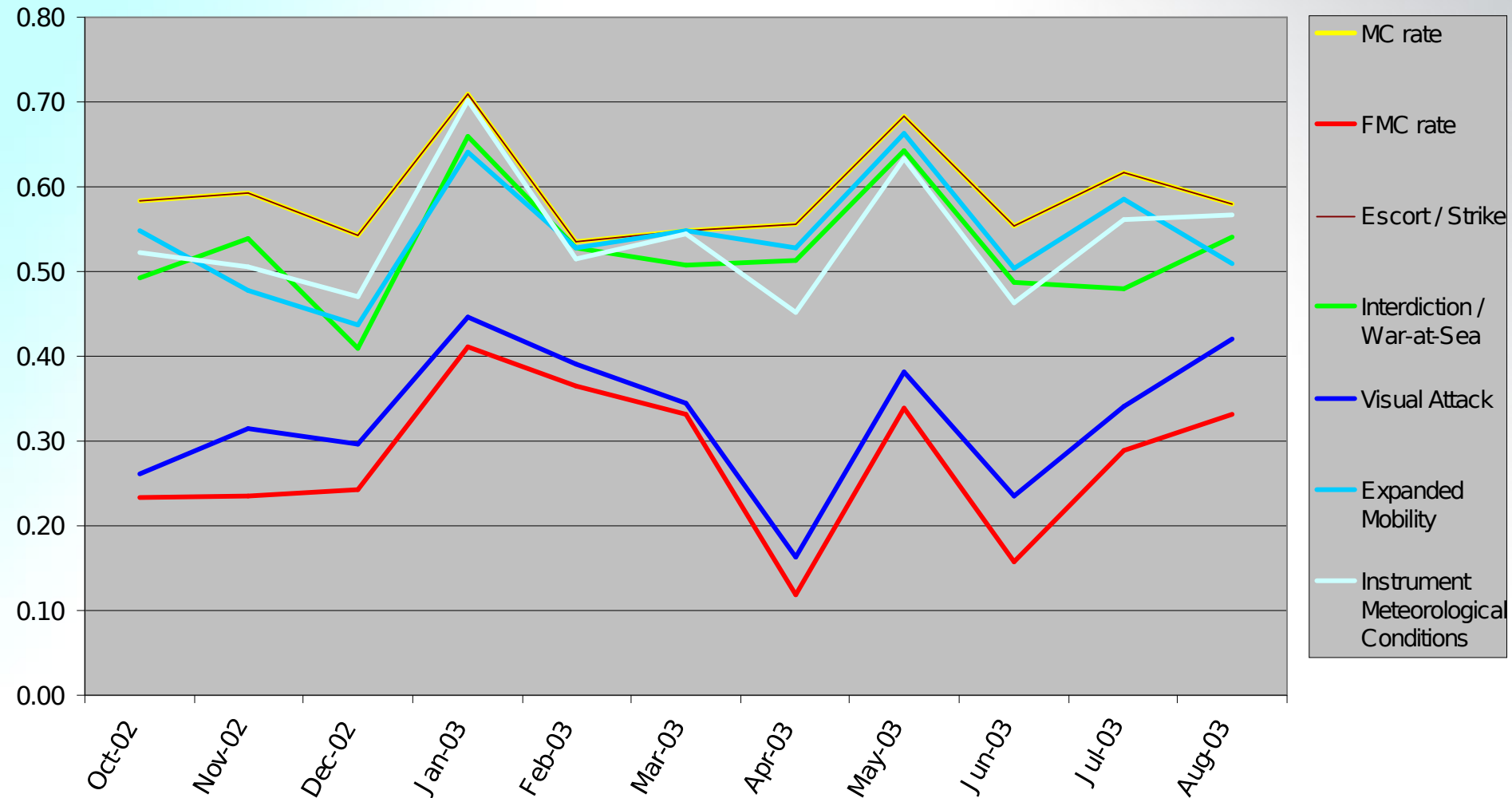
Anatomy of a Solution

- Define the core missions or capabilities for each platform type
- Identify the number of platforms that are capable of performing each core mission
 - Final solution: Use existing maintenance systems to link individual failures to subsystems and ultimately missions. Can electronically track and calculate MC by core missions much like MC rates are currently calculated (ex: USN's NALCOMIS)
 - Interim solution: Maintain a daily spot check on the capability of each platform relative to core missions
- Include corollaries for ships, submarines and multi-mission ground equipment
- Identify goals consistent with operating requirements for those missions



Navy Aviation Example

MC by Mission area for VFA 106





Defining “core capabilities”

- Defined by the Services
- Based on operational requirements
- Specific enough to identify whether platforms are capable of conducting mission tasks
 - Missions that are not “mechanically” discernable should be combined
- Updated as necessary to reflect common mission tasking



BACKUP SLIDES



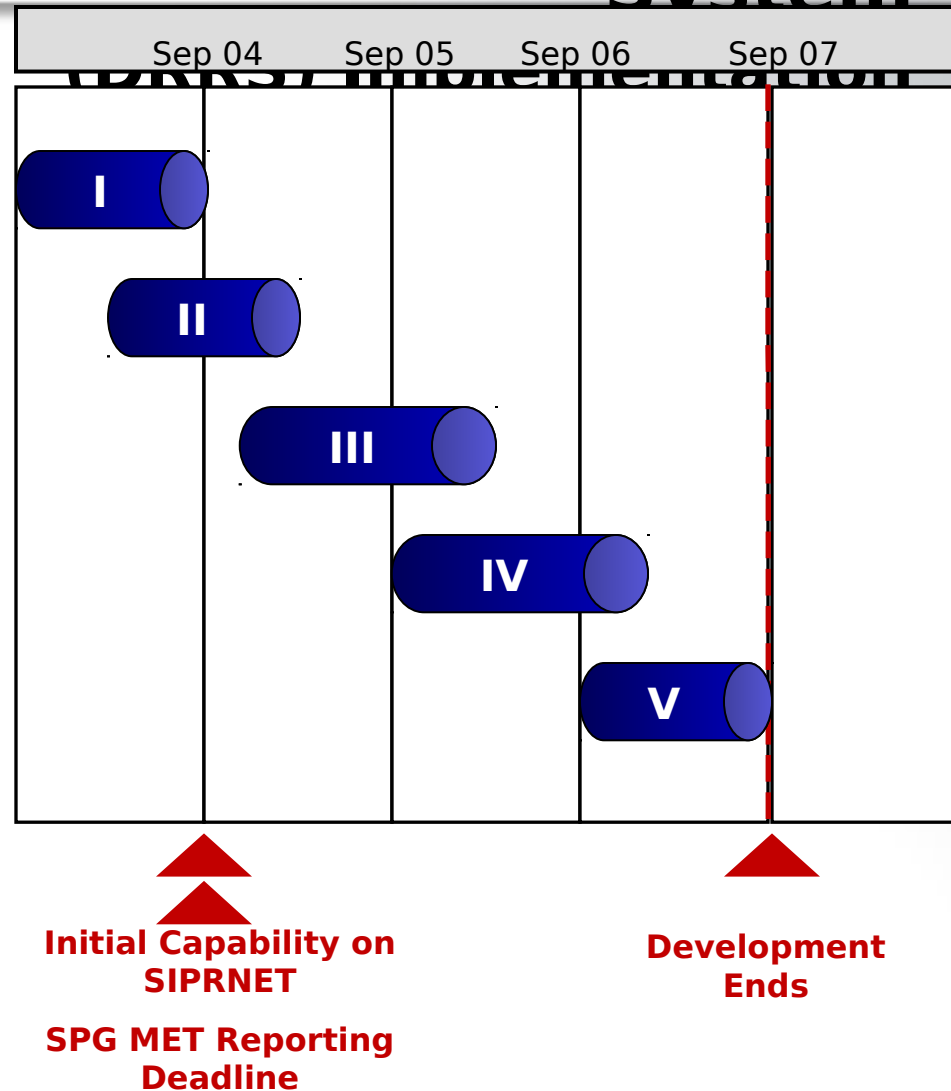
DRRS URL

- SIPRNET:
 - <https://drrs.deccpac.disa.smil.mil/index.html>
- Follow the registration/new account prompts



Defense Readiness Reporting System

- I. Initial capability
 - Portal and Registration
 - Build and assess MET
 - Resource Displays
- II. Expanded resource displays, **GFM query capabilities**, scenario library, initial force allocation module
- III. Mobility and transportation models, expanded force allocation software
- IV. Primary risk assessment applications
- V. Full risk and scenario assessment capability





Authoritative Data Sources

	ARMY	AIR FORCE	MARINE CORPS	NAVY	JOINT
PERSONNEL	ITAPDB	MILPDS	TBD	EDB	EJMAPS
EQUIPMENT	TAADS	DCAPES	MERIT TRMS	TRMS	GCSS
SUPPLY	TAADS	DCAPES	MERIT TRMS	IRRI	GCSS
TRAINING	DTMS	DCAPES	SHARP	TRAREP SHARP	DTMS
ORDNANCE	TBD	DCAPES	TBD	CAIMS	GCSS
LOCATION	TBD	ART	TBD	TRMS	BFT
ORG	DART	ART	GSORTS	TRMS	GSORTS
READINESS	ASORTS	ART	GSORTS	TRMS	GSORTS
AVAILABILITY	DART	ART	MCMPs	DRRSN	JOPES